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8/15/86

August 25, 1986

Mr. Edgar Moodie
Plant Engineer
NALCO Chemical Company
6216 West 66th Street
Chicago, Illinois 60638

Reference: Versar Quotation No. 86-1175A

EPA Region 5 Records Ctr.



308750

Dear Mr. Moodie:

Versar is pleased to submit this quotation in response to your requirements as related to Mr. Art Jung in recent telephone conversations for collection of soil samples at your plant site and provision of a field activities summary report. Following your sampling plan and guidance, Versar will collect a total of 52 surface (0 to 6 ") samples, a total of 20 depth discrete samples comprising one foot interval samples to a depth of five feet at four locations, will composite and/or split these samples, will ship the samples, using appropriate custody procedures, to NALCO's analytical contract laboratory (Wright State University), and will prepare a sampling report documenting procedures used and field observations made.

All samples will be collected following appropriate soil sampling guidances as dictated by specific site conditions. Versar anticipates that samples can be collected by using a flighted auger. If site conditions prohibits its use, or if NALCO specifically requires, Versar will subcontract and supervise hollow stem augering. These candidate protocols are presented in Attachment 1. Sample compositing and splitting will be conducted in accordance with NALCO's Sampling Plan specifications. Samples will be containerized, preserved, and packaged for shipment following EPA's procedures and applicable DOT packaging regulations. Samples will be shipped to NALCO's laboratory under Versar's strict chain-of-custody procedures and DOT's shipping regulations.

Following field activities, Versar personnel will prepare a summary report which will serve to document specific sampling, splitting, compositing, packaging, and shipping procedures. All field observations made by Versar personnel that would be germane to data interpretation will also be presented in this report. Original field data sheets such as chain-of-custody forms and shipping waybills will be submitted as attachments to this summary report.



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All Versar personnel assigned to perform this work are currently participants in an active medical surveillance program, have received training, have direct field sampling experience, and will be fully equipped with safety equipment necessary to conduct this work in a safe and healthful manner.

Versar proposes to provide our technical services on a time and materials basis. Our estimated price for sample collection, sample preparation, sample shipment, and preparation of a summary report is \$9,000. Costs for procuring and utilizing a drilling subcontractor to obtain samples by hollow stem augering techniques and to monitor these activities is estimated to be an additional \$1,500. Our price includes labor, materials, and other direct charges such as equipment rental and sample and equipment shipping costs.

Our payment terms are 30 days net. This quotation is valid for a period of 60 days. Versar will establish a firm schedule to commence activities upon receipt of an acceptable purchase order and will proceed with actual sampling activities within two weeks after approval. Versar's acceptance of a purchase order to perform this activity for NALCO Chemical Co. is conditional upon USEPAs review of this activity and subsequent finding of no conflict of interest in Versar's performance of the work.

Versar has reviewed the NALCO Chemical Company Standard Service Agreement and finds the terms of the agreement acceptable and will take no exceptions to this agreement.

Versar appreciates the opportunity to provide our technical services to NALCO Chemical Company. Should you have any technical questions, please feel free to call Mr. Eric Juergens at 703/642-6749.

Very truly yours,

Lee C. McCandless
Director of Operations
Technical Operations Group

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Approved by

Walter H. Rogers, Jr.
Vice President/Treasurer

ATTACHMENT 1
SAMPLING AND SAMPLE HANDLING PROTOCOLS

Procedure	Device	Reference
Surface Sampling	Bulb Planter	Sampling Guidance Manual for the National Dioxin Study ¹
Depth Sampling	Flighted Auger (solid stem)	Test Methods for Evaluating Solid Waste ²
Depth Sampling	Hollow Stem Auger	Ground Water and Wells ³
Sample Containerization	NA	Sample Guidance Manual for the National Dioxin Study
Sample Preservation	NA	Test Methods for Evaluating Solid Waste
Sample Packaging		Sample Guidance Manual for the National Dioxin Study
Sample Shipment		49 CFR 173.22a

¹ Versar Inc., Draft Final Report, Sampling Guidance Manual for the National Dioxin Study, Prepared for U.S. EPA, Office of Water Regulations and Standards, Monitoring and Data Support Division, July 1984.

² Test Methods for Evaluating Solid Waste, SW-846, Second Edition, U.S. EPA, Office of Solid Waste and Emergency Response, 1982.

³ Driscoll, Fletcher G., Ground Water and Wells, Second Edition, Johnson Division, 1986.